

# CMS Simulation (LHE) 13 TeV

Fraction of events / 1 GeV

$pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$   
 $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$   
 $m_{\gamma_D} = 0.25 \text{ GeV}, c\tau_{\gamma_D} = 0.1 \text{ mm}$

— 1st  $\mu\mu$  (leading  $p_T$ )

— 2nd  $\mu\mu$

0.045

0.04

0.035

0.03

0.025

0.02

0.015

0.01

0.005

0

0

10

20

30

40

50

60

70

80

90

100

$p$  of  $\mu\mu$  [GeV]

